

ABSTRACT OF THE DISCLOSURE

A dynamic seal assembly for installation between first and second relatively rotating members, comprising a ring for fixed engagement with said first member and an annular seal extending radially from said ring and configured to slidably engage said second member, wherein said radial seal has a thickness, and a length that is from about 1 to about 15 times greater than said thickness. In various embodiments, the seal is formed of a rubber composition comprising a vulcanized fluorocarbon elastomer dispersed in a matrix of a thermoplastic polymeric material. In various embodiments, the matrix forms a continuous phase and the vulcanized elastomeric material is in the form of particles forming a non-continuous phase. The compositions may be made by combining a curative, an uncured fluorocarbon elastomer, and a thermoplastic material, and heating the mixture to effect vulcanization of the elastomeric material, while applying mechanical energy.